

Canine	Human	ATGAGAGTTC	AGTTAGGGCT	AGAGAGGCTC	TACCCCTGGC	CAGCGCTCGA	GACCTAATCA	AGAGCTTTCC	AGAACTGTGT	CCAGAGATGT	CCGAGAGTGA	100	
Canine	Human	ATGAGAGTTC	AGTTAGGGCT	AGAGAGGCTC	TACCCCTGGC	CAGCGCTCGA	GACCTAATCA	AGAGCTTTCC	AGAACTGTGT	CCAGAGATGT	CCGAGAGTGA	100	
Canine	Human	TTCCAGACAC	GGGCCCCAGG	CACCCAGAG	CCGAGAGCG	AGACCTCTCC	GAAGCCATT	TCTCTCTGCT	GCAGCAGCAG	CAGCAGCAGC	GCAGCAGCAG	170	
Canine	Human	TTCCAGACAC	GGGCCCCAGG	CACCCAGAG	CCGAGAGCG	AGACCTCTCC	GAAGCCATT	TCTCTCTGCT	GCAGCAGCAG	CAGCAGCAGC	GCAGCAGCAG	200	
Canine	Human	GCAGCAGCAG	CAGCAGCAGC	AGAGAGAGC	TTCCCTCTG	CAGCAGCAGC	AGAGAGAGG	TGATGATGT	TCCTCCCAAG	CAGCAGCAGC	AGAGCAGCAGC	290	
Canine	Human	GCAGCAGCAG	CAGCAGCAGC	AGAGAGAGC	TTCCCTCTG	CAGCAGCAGC	AGAGAGAGG	TGATGATGT	TCCTCCCAAG	CAGCAGCAGC	AGAGCAGCAGC	297	
Canine	Human	GGCTACCTGG	TTCTGGATGA	GGACAGCAG	CTCTCTCAG	AGCTCTCTC	CTCTCTCTC	CTCTCTCTC	CTCTCTCTC	CTCTCTCTC	CTCTCTCTC	370	
Canine	Human	GGCTACCTGG	TTCTGGATGA	GGACAGCAG	CTCTCTCAG	AGCTCTCTC	CTCTCTCTC	CTCTCTCTC	CTCTCTCTC	CTCTCTCTC	CTCTCTCTC	397	
Canine	Human	CTGCGCTCTG	CAGAGGGGCT	CTGAGCAGC	CTGAGCAGC	CTGAGCAGC	CTGAGCAGC	CTGAGCAGC	CTGAGCAGC	CTGAGCAGC	CTGAGCAGC	470	
Canine	Human	CTGCGCTCTG	CAGAGGGGCT	CTGAGCAGC	CTGAGCAGC	CTGAGCAGC	CTGAGCAGC	CTGAGCAGC	CTGAGCAGC	CTGAGCAGC	CTGAGCAGC	497	
Canine	Human	CGCTTTAGG	AGCTGTTCC	AGCTTTTAA	AGACATCTG	AGAGAGGCTA	AGACATCTG	AGCTTTTAA	AGCTTTTAA	AGCTTTTAA	AGCTTTTAA	570	
Canine	Human	CGCTTTAGG	AGCTGTTCC	AGCTTTTAA	AGACATCTG	AGAGAGGCTA	AGACATCTG	AGCTTTTAA	AGCTTTTAA	AGCTTTTAA	AGCTTTTAA	579	
Canine	Human	CAGCAGCAGC	AGAGCAGCAG	GGAGCAGCAG	CAGCAGCAGC	AGAGCAGCAG	GGAGCAGCAG	CAGCAGCAGC	AGAGCAGCAG	GGAGCAGCAG	CAGCAGCAGC	670	
Canine	Human	CAGCAGCAGC	AGAGCAGCAG	GGAGCAGCAG	CAGCAGCAGC	AGAGCAGCAG	GGAGCAGCAG	CAGCAGCAGC	AGAGCAGCAG	GGAGCAGCAG	CAGCAGCAGC	643	
Canine	Human	CCAGAGCAGC	TTACATGAGG	GGCATTTCGA	CCATTTCTCA	CAGCAGCAGC	GGATTGTGTA	AGAGCAGCAG	GGATTGTGTA	AGAGCAGCAG	GGATTGTGTA	770	
Canine	Human	CCAGAGCAGC	TTACATGAGG	GGCATTTCGA	CCATTTCTCA	CAGCAGCAGC	GGATTGTGTA	AGAGCAGCAG	GGATTGTGTA	AGAGCAGCAG	GGATTGTGTA	743	
Canine	Human	GGACATCTGG	AGCTCTGGG	AGACATCTGG	GGGGGATTG	ATGATCTCTG	CTCTCTCTG	AGCTCTCTG	CTCTCTCTG	AGCTCTCTG	CTCTCTCTG	854	
Canine	Human	GGACATCTGG	AGCTCTGGG	AGACATCTGG	GGGGGATTG	ATGATCTCTG	CTCTCTCTG	AGCTCTCTG	CTCTCTCTG	AGCTCTCTG	CTCTCTCTG	843	
Canine	Human	GGCAGATGCA	AGGTTTCTCT	GCTGAGATCA	GGCAGATGCA	AGGTTTCTCT	GCTGAGATCA	AGGTTTCTCT	GCTGAGATCA	AGGTTTCTCT	GCTGAGATCA	954	
Canine	Human	GGCAGATGCA	AGGTTTCTCT	GCTGAGATCA	GGCAGATGCA	AGGTTTCTCT	GCTGAGATCA	AGGTTTCTCT	GCTGAGATCA	AGGTTTCTCT	GCTGAGATCA	943	
Canine	Human	AGGAGCAGC	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	1064	
Canine	Human	AGGAGCAGC	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	1043	
Canine	Human	TTAGAGCAGC	GGCATTTCGA	CTGAGATCTA	CTGAGATCTA	CTGAGATCTA	CTGAGATCTA	CTGAGATCTA	CTGAGATCTA	CTGAGATCTA	CTGAGATCTA	1164	
Canine	Human	TTAGAGCAGC	GGCATTTCGA	CTGAGATCTA	CTGAGATCTA	CTGAGATCTA	CTGAGATCTA	CTGAGATCTA	CTGAGATCTA	CTGAGATCTA	CTGAGATCTA	1143	
Canine	Human	AGGAGCAGC	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	1264	
Canine	Human	AGGAGCAGC	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	1243	
Canine	Human	AGGAGCAGC	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	1346	
Canine	Human	AGGAGCAGC	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	1343	
Canine	Human	GGGAGCAGC	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	1410	
Canine	Human	GGGAGCAGC	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	1443	
Canine	Human	AGGAGCAGC	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	1510	
Canine	Human	AGGAGCAGC	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	CTCTCTCTG	1543	
Canine	Human	CTATTGTGT	CAAGAGCAG	ATGGGCTCT	GGATGAGAG	CTACTCTCGA	CCATTAGAG	ACATGGGTT	GGAGCTGCC	AGGAGCAGT	TTTATCCAT	1610	
Canine	Human	CTATTGTGT	CAAGAGCAG	ATGGGCTCT	GGATGAGAG	CTACTCTCGA	CCATTAGAG	ACATGGGTT	GGAGCTGCC	AGGAGCAGT	TTTATCCAT	1643	
Canine	Human	TTGACATTAC	TTTCCACCTC	AGAGAGCCTG	TTGATCTGTC	GGATGAGAG	CTTCTGGATG	TTGACATTAC	GCTCTCAGT	GTGGAGCTG	CAGATCTTTC	1710	
Canine	Human	TTGACATTAC	TTTCCACCTC	AGAGAGCCTG	TTGATCTGTC	GGATGAGAG	CTTCTGGATG	TTGACATTAC	GCTCTCAGT	GTGGAGCTG	CAGATCTTTC	1743	
Canine	Human	TTTAAAGAG	CCGCTGAGG	GAACAGAGAG	TACCTGTGTC	CCAGCAGAGA	TGATTGAGC	TTTAAAGAG	TCCGAGGAGA	AAATTGTCCA	TCTTGTCCG	1810	
Canine	Human	TTTAAAGAG	CCGCTGAGG	GAACAGAGAG	TACCTGTGTC	CCAGCAGAGA	TGATTGAGC	TTTAAAGAG	TCCGAGGAGA	AAATTGTCCA	TCTTGTCCG	1843	
Canine	Human	TTCCGAAATG	TTATGAGACA	GGGATGACTC	TGGAGAGCCC	GAAGCTTAGA	AAACTTGGTA	TTCCGAAATG	ATCTGAACT	CAAGAGGAGA	GGAGAGGCTT	CCATGTCCAC	1910
Canine	Human	TTCCGAAATG	TTATGAGACA	GGGATGACTC	TGGAGAGCCC	GAAGCTTAGA	AAACTTGGTA	TTCCGAAATG	ATCTGAACT	CAAGAGGAGA	GGAGAGGCTT	CCATGTCCAC	1943
Canine	Human	CAGCCCCATC	GAGAGCAG	CCAGAGAGCT	GACAGGTGTA	CACATTGAGG	GCTATGATG	TGAGCCCCAT	TTTCTGATG	TCTTGAGAG	CATTAGGCCA	2010	
Canine	Human	CAGCCCCATC	GAGAGCAG	CCAGAGAGCT	GACAGGTGTA	CACATTGAGG	GCTATGATG	TGAGCCCCAT	TTTCTGATG	TCTTGAGAG	CATTAGGCCA	2043	
Canine	Human	GGCTGTGTGT	GTGCTGACCA	GGACAGCAG	CAGCCCCATC	CCTTTGCAGC	CTTGCTCTCT	AGCTTATGTC	AAATGGGAGA	AGAGAGCTT	GATGAGTGG	2110	
Canine	Human	GGCTGTGTGT	GTGCTGACCA	GGACAGCAG	CAGCCCCATC	CCTTTGCAGC	CTTGCTCTCT	AGCTTATGTC	AAATGGGAGA	AGAGAGCTT	GATGAGTGG	2143	
Canine	Human	TTCAAGTGGC	CAGAGGCTTG	CCAGGCTTCC	GCACATCTCA	CTGGAGAGC	CAGATGGGTC	TTTCAAGTGG	CTCTGATGTC	GGGCTGATG	TGTTTCCAT	2210	
Canine	Human	TTCAAGTGGC	CAGAGGCTTG	CCAGGCTTCC	GCACATCTCA	CTGGAGAGC	CAGATGGGTC	TTTCAAGTGG	CTCTGATGTC	GGGCTGATG	TGTTTCCAT	2243	
Canine	Human	GGGCTGGGGA	TCCTTCAACA	ATGTCACTTC	CAGGATGCTC	TACTTGCACC	CTGAGCTGGT	TTTCAATGAG	TACCGATGTC	ACAGATCCG	GATGTACAGC	2310	
Canine	Human	GGGCTGGGGA	TCCTTCAACA	ATGTCACTTC	CAGGATGCTC	TACTTGCACC	CTGAGCTGGT	TTTCAATGAG	TACCGATGTC	ACAGATCCG	GATGTACAGC	2343	
Canine	Human	GATGTGTGCC	GATGAGGACA	CCCTCTCTCA	GAATTTGGAT	GGCTCCAAAT	CACCCCTCAG	GAATTTGGT	GATGAGAGC	CTGCTCTCT	TTCAAGATTG	2410	
Canine	Human	GATGTGTGCC	GATGAGGACA	CCCTCTCTCA	GAATTTGGAT	GGCTCCAAAT	CACCCCTCAG	GAATTTGGT	GATGAGAGC	CTGCTCTCT	TTCAAGATTG	2443	
Canine	Human	TTTCCGATGA	TGGGCTGAAA	AAATCAAAAT	TTCTTTGATG	ACTTGGATG	AACTACATCA	AGGAACTGTA	TCGATATCAT	GCATTGACAA	GAATTAATCC	2510	
Canine	Human	TTTCCGATGA	TGGGCTGAAA	AAATCAAAAT	TTCTTTGATG	ACTTGGATG	AACTACATCA	AGGAACTGTA	TCGATATCAT	GCATTGACAA	GAATTAATCC	2543	
Canine	Human	CAGATCTGTC	TGAGAGGCTC	TCTACAGCTC	CACAGAGCTC	CTGAGCTGTC	TGACCTCTAT	TGCTGAGAG	CTGATCAGT	TGATTTTGA	CTGCTATATC	2610	
Canine	Human	CAGATCTGTC	TGAGAGGCTC	TCTACAGCTC	CACAGAGCTC	CTGAGCTGTC	TGACCTCTAT	TGCTGAGAG	CTGATCAGT	TGATTTTGA	CTGCTATATC	2643	
Canine	Human	AGATGTCACA	TGGTGAAGCT	GGACTTTTCA	GAATGATGTC	CAGAGATCAT	CTCTGTGACA	GTGCGCAGA	TTCTTTCTG	GAAGTCAGG	CCCATCTATT	2710	
Canine	Human	AGATGTCACA	TGGTGAAGCT	GGACTTTTCA	GAATGATGTC	CAGAGATCAT	CTCTGTGACA	GTGCGCAGA	TTCTTTCTG	GAAGTCAGG	CCCATCTATT	2743	
Canine	Human	TTCCACACCA	GTGA									2724	
Canine	Human	TTCCACACCA	GTGA									2757	

Figure 2

Canine	NEUQLGLGRU	VPAPPSKTYR	GAQNLFQSVU	REIQNPGR	HPEARSAPP	GA	-----	Q0000000	-----	Y-----	SP	Q00000	Q00	EDGSPORH	87	
Human	NEUQLGLGRU	VPAPPSKTYR	GAQNLFQSVU	REIQNPGR	HPEARSAPP	GA	LL0000	Q000000000	Q0000	-----	TS	PR0000	Q00	EDGSPORH	96	
Chimp	NEUQLGLGRU	VPAPPSKTYR	GAQNLFQSVU	REIQNPGR	HPEARSAPP	GA	LL0000	Q000000000	Q000000000	-----	TS	PR0000	Q00	EDGSPORH	99	
Macaque	NEUQLGLGRU	VPAPPSKTYR	GAQNLFQSVU	REIQNPGR	HPEARSAPP	GA	-----	-----	Q0	Q0000000	-----	TS	PR0000	Q00	EDGSPORH	85
Lemur	NEUQLGLGRU	VPAPPSKTYR	GAQNLFQSVU	REIQNPGR	HPEARSAPP	GA	-----	-----	Q0	Q0000000	-----	TS	PR0000	Q00	EDGSPORH	81
Rat	NEUQLGLGRU	VPAPPSKTYR	GAQNLFQSVU	REIQNPGR	HPEARSAPP	GA	-----	-----	Q0	Q0000000	-----	TS	PR0000	Q00	EDGSPORH	81
House	NEUQLGLGRU	VPAPPSKTYR	GAQNLFQSVU	REIQNPGR	HPEARSAPP	GA	-----	-----	Q0	Q0000000	-----	TS	PR0000	Q00	EDGSPORH	81
Canine	PTGYLLLE	EQQSPQDRA	LECPESCUQ	PEPGRHARS	KGLDQPP	PEPGRHARS	TLSSLGPTFF	GLSSCSIDK	DILSEATHQ	LL0000000	-----	-----	-----	-----	187	
Human	PTGYLLLE	EQQSPQDRA	LECPESCUQ	PEPGRHARS	KGLDQPP	PEPGRHARS	TLSSLGPTFF	GLSSCSIDK	DILSEATHQ	LL0000000	-----	-----	-----	-----	188	
Chimp	PTGYLLLE	EQQSPQDRA	LECPESCUQ	PEPGRHARS	KGLDQPP	PEPGRHARS	TLSSLGPTFF	GLSSCSIDK	DILSEATHQ	LL0000000	-----	-----	-----	-----	188	
Macaque	PTGYLLLE	EQQSPQDRA	LECPESCUQ	PEPGRHARS	KGLDQPP	PEPGRHARS	TLSSLGPTFF	GLSSCSIDK	DILSEATHQ	LL0000000	-----	-----	-----	-----	177	
Lemur	PTGYLLLE	EQQSPQDRA	LECPESCUQ	PEPGRHARS	KGLDQPP	PEPGRHARS	TLSSLGPTFF	GLSSCSIDK	DILSEATHQ	LL0000000	-----	-----	-----	-----	173	
Rat	PTGYLLLE	EQQSPQDRA	LECPESCUQ	PEPGRHARS	KGLDQPP	PEPGRHARS	TLSSLGPTFF	GLSSCSIDK	DILSEATHQ	LL0000000	-----	-----	-----	-----	179	
House	PTGYLLLE	EQQSPQDRA	LECPESCUQ	PEPGRHARS	KGLDQPP	PEPGRHARS	TLSSLGPTFF	GLSSCSIDK	DILSEATHQ	LL0000000	-----	-----	-----	-----	181	
Canine	Q000000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	285	
Human	Q000000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	281	
Chimp	Q000000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	278	
Macaque	Q000000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	267	
Lemur	Q000000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	263	
Rat	Q000000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	279	
House	Q000000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	Q00000000	277	
Canine	APLHECKGL	LDDGPKATE	ETREYFFK	QYKGLBES	LCCSSEBAG	BSOTLEPS	SLVKSGLD	EARVQHDV	VNPLALGP	PPPPPPPH	-----	-----	-----	-----	383	
Human	APLHECKGL	LDDGPKATE	ETREYFFK	QYKGLBES	LCCSSEBAG	BSOTLEPS	SLVKSGLD	EARVQHDV	VNPLALGP	PPPPPPPH	-----	-----	-----	-----	376	
Chimp	APLHECKGL	LDDGPKATE	ETREYFFK	QYKGLBES	LCCSSEBAG	BSOTLEPS	SLVKSGLD	EARVQHDV	VNPLALGP	PPPPPPPH	-----	-----	-----	-----	381	
Macaque	APLHECKGL	LDDGPKATE	ETREYFFK	QYKGLBES	LCCSSEBAG	BSOTLEPS	SLVKSGLD	EARVQHDV	VNPLALGP	PPPPPPPH	-----	-----	-----	-----	367	
Lemur	APLHECKGL	LDDGPKATE	ETREYFFK	QYKGLBES	LCCSSEBAG	BSOTLEPS	SLVKSGLD	EARVQHDV	VNPLALGP	PPPPPPPH	-----	-----	-----	-----	363	
Rat	APLHECKGL	LDDGPKATE	ETREYFFK	QYKGLBES	LCCSSEBAG	BSOTLEPS	SLVKSGLD	EARVQHDV	VNPLALGP	PPPPPPPH	-----	-----	-----	-----	379	
House	APLHECKGL	LDDGPKATE	ETREYFFK	QYKGLBES	LCCSSEBAG	BSOTLEPS	SLVKSGLD	EARVQHDV	VNPLALGP	PPPPPPPH	-----	-----	-----	-----	377	
Canine	PHATIKLEP	DVGSNARA	AAQCAFGL	SLHGARGP	BSGSPHARS	BSHMTLFTRE	EQGLVPC	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	455	
Human	PHATIKLEP	DVGSNARA	AAQCAFGL	SLHGARGP	BSGSPHARS	BSHMTLFTRE	EQGLVPC	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	476	
Chimp	PHATIKLEP	DVGSNARA	AAQCAFGL	SLHGARGP	BSGSPHARS	BSHMTLFTRE	EQGLVPC	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	469	
Macaque	PHATIKLEP	DVGSNARA	AAQCAFGL	SLHGARGP	BSGSPHARS	BSHMTLFTRE	EQGLVPC	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	453	
Lemur	PHATIKLEP	DVGSNARA	AAQCAFGL	SLHGARGP	BSGSPHARS	BSHMTLFTRE	EQGLVPC	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	442	
Rat	PHATIKLEP	DVGSNARA	AAQCAFGL	SLHGARGP	BSGSPHARS	BSHMTLFTRE	EQGLVPC	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	459	
House	PHATIKLEP	DVGSNARA	AAQCAFGL	SLHGARGP	BSGSPHARS	BSHMTLFTRE	EQGLVPC	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	GGGGGAGGG	457	
Canine	APVGYTRPPQ	GLQDEEDFP	PPQUMPSJ	USRUP-PSF	CUKSENGH	ESVSGPYGM	PLETRADHUL	PIDVYFPK	TCLICGDEAS	GCHVGALTCG	-----	-----	-----	-----	565	
Human	APVGYTRPPQ	GLQDEEDFP	PPQUMPSJ	USRUP-PSF	CUKSENGH	ESVSGPYGM	PLETRADHUL	PIDVYFPK	TCLICGDEAS	GCHVGALTCG	-----	-----	-----	-----	576	
Chimp	APVGYTRPPQ	GLQDEEDFP	PPQUMPSJ	USRUP-PSF	CUKSENGH	ESVSGPYGM	PLETRADHUL	PIDVYFPK	TCLICGDEAS	GCHVGALTCG	-----	-----	-----	-----	569	
Macaque	APVGYTRPPQ	GLQDEEDFP	PPQUMPSJ	USRUP-PSF	CUKSENGH	ESVSGPYGM	PLETRADHUL	PIDVYFPK	TCLICGDEAS	GCHVGALTCG	-----	-----	-----	-----	553	
Lemur	APVGYTRPPQ	GLQDEEDFP	PPQUMPSJ	USRUP-PSF	CUKSENGH	ESVSGPYGM	PLETRADHUL	PIDVYFPK	TCLICGDEAS	GCHVGALTCG	-----	-----	-----	-----	542	
Rat	APVGYTRPPQ	GLQDEEDFP	PPQUMPSJ	USRUP-PSF	CUKSENGH	ESVSGPYGM	PLETRADHUL	PIDVYFPK	TCLICGDEAS	GCHVGALTCG	-----	-----	-----	-----	559	
House	APVGYTRPPQ	GLQDEEDFP	PPQUMPSJ	USRUP-PSF	CUKSENGH	ESVSGPYGM	PLETRADHUL	PIDVYFPK	TCLICGDEAS	GCHVGALTCG	-----	-----	-----	-----	557	
Canine	SKUFFKRAA	EGKQKVLAS	RNDCTDKFA	RKNCPSCALA	KCEVAGHTLG	AKLKKLGNL	KLOEEGEBS	ATSPTEEDT	KITUSHIEGV	ECQPIFLNUL	-----	-----	-----	-----	665	
Human	SKUFFKRAA	EGKQKVLAS	RNDCTDKFA	RKNCPSCALA	KCEVAGHTLG	AKLKKLGNL	KLOEEGEBS	ATSPTEEDT	KITUSHIEGV	ECQPIFLNUL	-----	-----	-----	-----	676	
Chimp	SKUFFKRAA	EGKQKVLAS	RNDCTDKFA	RKNCPSCALA	KCEVAGHTLG	AKLKKLGNL	KLOEEGEBS	ATSPTEEDT	KITUSHIEGV	ECQPIFLNUL	-----	-----	-----	-----	669	
Macaque	SKUFFKRAA	EGKQKVLAS	RNDCTDKFA	RKNCPSCALA	KCEVAGHTLG	AKLKKLGNL	KLOEEGEBS	ATSPTEEDT	KITUSHIEGV	ECQPIFLNUL	-----	-----	-----	-----	653	
Lemur	SKUFFKRAA	EGKQKVLAS	RNDCTDKFA	RKNCPSCALA	KCEVAGHTLG	AKLKKLGNL	KLOEEGEBS	ATSPTEEDT	KITUSHIEGV	ECQPIFLNUL	-----	-----	-----	-----	642	
Rat	SKUFFKRAA	EGKQKVLAS	RNDCTDKFA	RKNCPSCALA	KCEVAGHTLG	AKLKKLGNL	KLOEEGEBS	ATSPTEEDT	KITUSHIEGV	ECQPIFLNUL	-----	-----	-----	-----	659	
House	SKUFFKRAA	EGKQKVLAS	RNDCTDKFA	RKNCPSCALA	KCEVAGHTLG	AKLKKLGNL	KLOEEGEBS	ATSPTEEDT	KITUSHIEGV	ECQPIFLNUL	-----	-----	-----	-----	657	
Canine	ERIEPGUACA	GHONNPOSF	RALLSSNEL	GEROLUHAUK	WAKALPGFRN	LUHODQHAI	QVSHGLMUF	ANGURSFTNU	NSRILVFAPD	LUFNEVRAHK	-----	-----	-----	-----	765	
Human	ERIEPGUACA	GHONNPOSF	RALLSSNEL	GEROLUHAUK	WAKALPGFRN	LUHODQHAI	QVSHGLMUF	ANGURSFTNU	NSRILVFAPD	LUFNEVRAHK	-----	-----	-----	-----	776	
Chimp	ERIEPGUACA	GHONNPOSF	RALLSSNEL	GEROLUHAUK	WAKALPGFRN	LUHODQHAI	QVSHGLMUF	ANGURSFTNU	NSRILVFAPD	LUFNEVRAHK	-----	-----	-----	-----	769	
Macaque	ERIEPGUACA	GHONNPOSF	RALLSSNEL	GEROLUHAUK	WAKALPGFRN	LUHODQHAI	QVSHGLMUF	ANGURSFTNU	NSRILVFAPD	LUFNEVRAHK	-----	-----	-----	-----	753	
Lemur	ERIEPGUACA	GHONNPOSF	RALLSSNEL	GEROLUHAUK	WAKALPGFRN	LUHODQHAI	QVSHGLMUF	ANGURSFTNU	NSRILVFAPD	LUFNEVRAHK	-----	-----	-----	-----	742	
Rat	ERIEPGUACA	GHONNPOSF	RALLSSNEL	GEROLUHAUK	WAKALPGFRN	LUHODQHAI	QVSHGLMUF	ANGURSFTNU	NSRILVFAPD	LUFNEVRAHK	-----	-----	-----	-----	759	
House	ERIEPGUACA	GHONNPOSF	RALLSSNEL	GEROLUHAUK	WAKALPGFRN	LUHODQHAI	QVSHGLMUF	ANGURSFTNU	NSRILVFAPD	LUFNEVRAHK	-----	-----	-----	-----	757	
Canine	SRNYSOCVRA	RHLSEFGAL	QITPQEFCH	KALLFSIIP	VDGLKQKFF	DELARNYIKE	LDRITACKRK	NPTSCSRAFY	QLTKLLDSUQ	PIARELHOFT	-----	-----	-----	-----	865	
Human	SRNYSOCVRA	RHLSEFGAL	QITPQEFCH	KALLFSIIP	VDGLKQKFF	DELARNYIKE	LDRITACKRK	NPTSCSRAFY	QLTKLLDSUQ	PIARELHOFT	-----	-----	-----	-----	876	
Chimp	SRNYSOCVRA	RHLSEFGAL	QITPQEFCH	KALLFSIIP	VDGLKQKFF	DELARNYIKE	LDRITACKRK	NPTSCSRAFY	QLTKLLDSUQ	PIARELHOFT	-----	-----	-----	-----	869	
Macaque	SRNYSOCVRA	RHLSEFGAL	QITPQEFCH	KALLFSIIP	VDGLKQKFF	DELARNYIKE	LDRITACKRK	NPTSCSRAFY	QLTKLLDSUQ	PIARELHOFT	-----	-----	-----	-----	853	
Lemur	SRNYSOCVRA	RHLSEFGAL	QITPQEFCH	KALLFSIIP	VDGLKQKFF	DELARNYIKE	LDRITACKRK	NPTSCSRAFY	QLTKLLDSUQ	PIARELHOFT	-----	-----	-----	-----	842	
Rat	SRNYSOCVRA	RHLSEFGAL	QITPQEFCH	KALLFSIIP	VDGLKQKFF	DELARNYIKE	LDRITACKRK	NPTSCSRAFY	QLTKLLDSUQ	PIARELHOFT	-----	-----	-----	-----	859	
House	SRNYSOCVRA	RHLSEFGAL	QITPQEFCH	KALLFSIIP	VDGLKQKFF	DELARNYIKE	LDRITACKRK	NPTSCSRAFY	QLTKLLDSUQ	PIARELHOFT	-----	-----	-----	-----	857	
Canine	FOLLIKSHNU	SUOFFENHRE	ISUQPKIL	SOKUKPIYFH	TQ	-----	-----	-----	-----	-----	-----	-----	-----	-----	907	
Human	FOLLIKSHNU	SUOFFENHRE	ISUQPKIL	SOKUKPIYFH	TQ	-----	-----	-----	-----	-----	-----	-----	-----	-----	918	
Chimp	FOLLIKSHNU	SUOFFENHRE	ISUQPKIL	SOKUKPIYFH	TQ	-----	-----	-----	-----	-----	-----	-----	-----	-----	911	
Macaque	FOLLIKSHNU	SUOFFENHRE	ISUQPKIL	SOKUKPIYFH	TQ	-----	-----	-----	-----	-----	-----	-----	-----	-----	895	
Lemur	FOLLIKSHNU	SUOFFENHRE	ISUQPKIL	SOKUKPIYFH	TQ	-----	-----	-----	-----	-----	-----	-----	-----	-----	884	
Rat	FOLLIKSHNU	SUOFFENHRE	ISUQPKIL	SOKUKPIYFH	TQ	-----	-----	-----	-----	-----	-----	-----	-----	-----	901	
House	FOLLIKSHNU	SUOFFENHRE	ISUQPKIL	SOKUKPIYFH	TQ	-----	-----	-----	-----	-----	-----	-----	-----	-----	899	

Figure 3

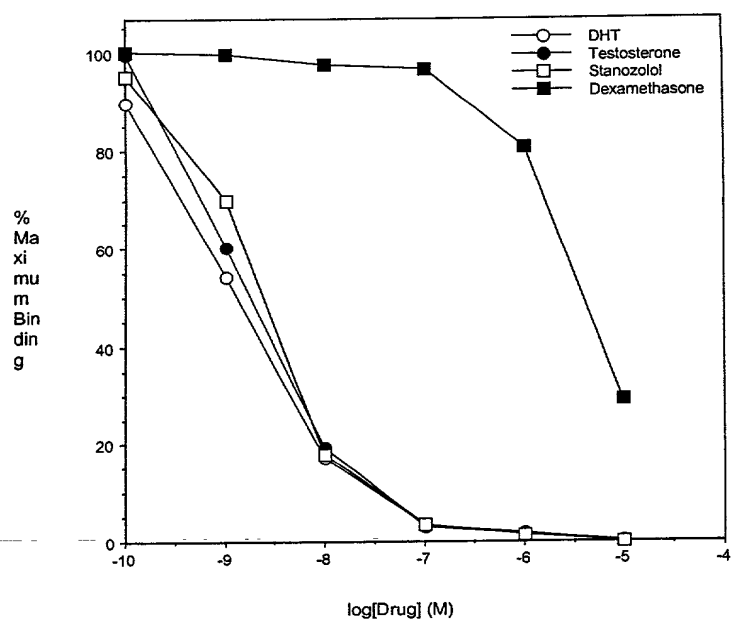


Figure 4

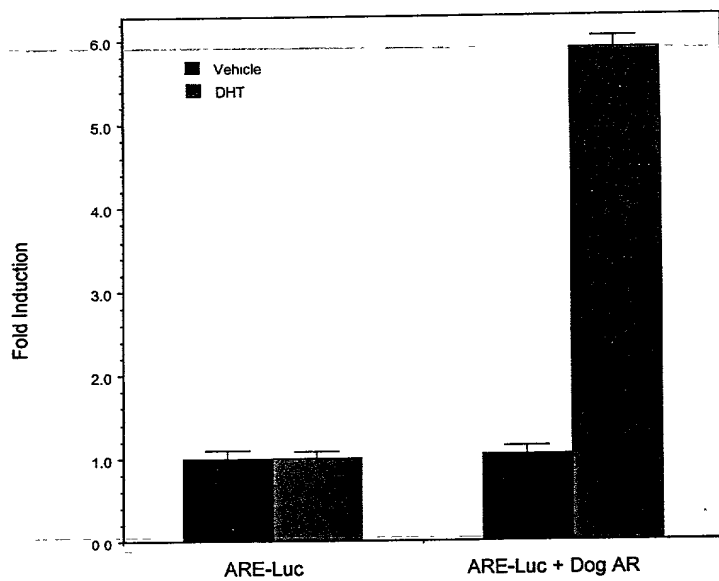


Figure 5